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**PALM INTRANET**

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 **PALM INTRANET****Inventor Information for 09/390634**

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 **PALM INTRANET****Application Number Information**

Application Number: 09/028514

**Assignments**

Filing or 371(c) Date: 02/23/1998

Effective Date: 02/23/1998

Application Received: 02/23/1998

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 0942.4110002

Status: 61 /FINAL REJECTION MAILED

Confirmation Number: 4800

Title of Invention: **SERUM-FREE MAMMALIAN CELL CULTURE MEDIUM, AND USES THEREOF**Examiner Number: 70276 / **WARE, DEBBIE**

Group Art Unit: 1651

**IFW IMAGE**

Class/Subclass:

**435/384.000**Lost Case: **NO**Waiting for Response  
Desc.

Interference Number:

**Mail Final Rej.**Unmatched Petition: **NO**L&R Code: Secrecy Code:1Third Level Review: **NO**Secrecy Order: **NO**

Status Date: 12/14/2004

Oral Hearing: **NO**

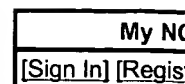
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L3	36228	(es or embryonic) and serum	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/02/22 10:10
L4	9090	(es or embryonic) and ((serum adj1 free) or (serum-free) or (serum adj1 without))	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/02/22 10:10
L5	8913	(es or embryonic) and ((media or medium) with (serum adj1 free) or (serum-free) or (serum adj1 without))	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/02/22 10:12



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☐ 1: J Embryol Exp Morphol. 1985 Jun;87:27-45.

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## The in vitro development of blastocyst-derived embryonic stem cell lines: formation of visceral yolk sac, blood islands and myocardium.

Doetschman TC, Eistetter H, Katz M, Schmidt W, Kemler R.

The in vitro developmental potential of mouse blastocyst-derived embryonic stem cell lines has been investigated. From 3 to 8 days of suspension culture the cells form complex embryoid bodies with endoderm, basal lamina, mesoderm and ectoderm. Many are morphologically similar to embryos of the 6- to 8-day egg-cylinder stage. From 8 to 10 days of culture about half of the embryoid bodies expand into large cystic structures containing alphafoetoprotein and transferrin, thus being analogous to the visceral yolk sac of the postimplantation embryo. Approximately one third of the cystic embryoid bodies develop myocardium and when cultured in the presence of human cord serum, 30% develop blood islands, thereby exhibiting a high level of organized development at a very high frequency. Furthermore, most embryonic stem cell lines observed exhibit similar characteristics. The in vitro developmental potential of embryonic stem cell lines and the consistency with which the cells express this potential are presented as aspects which open up new approaches to the investigation of embryogenesis.

PMID: 3897439 [PubMed - indexed for MEDLINE]

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